	Application No.	Applicant(s)
Notice of Allowability	10/790,635	DINSMORE, MARK
	Examiner	Art Unit
	Courtney Thomas	2882
The MAILING DATE of this communication appears All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	ears on the cover sheet with the coordinate (OR REMAINS) CLOSED in this appropriate communication is subject to and MPEP 1308.	correspondence address oplication. If not included n will be mailed in due course. THIS
This communication is responsive to <u>the Terminal Disclain</u> —	<u>ner IIIea: 03/02/09</u> .	
2. The allowed claim(s) is/are <u>1-32</u> .		
 Acknowledgment is made of a claim for foreign priority urents. All b) Some* c) None of the: Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have linternational Bureau (PCT Rule 17.2(a)). * Certified copies not received:	e been received. e been received in Application No.	
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to file a reply IENT of this application.	complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) 🔲 including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in the C	Office action of
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the		
6. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT		
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948)	5. ☐ Notice of Informal F	(PTO-413),
 3. \(\subseteq \) Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date <u>04/01/09</u> 4. \(\subseteq \) Examiner's Comment Regarding Requirement for Deposit of Biological Material 	Paper No./Mail Da 7. ☐ Examiner's Amendr 8. ☑ Examiner's Stateme	te ment/Comment ent of Reasons for Allowance
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DETAILED ACTION

Terminal Disclaimer

1. The terminal disclaimer filed on 03/02/09 disclaiming the terminal portion of any patent granted on this application which would extend beyond the expiration date of any patent granted on Application No. 10/481392 has been reviewed and is accepted. The terminal disclaimer has been recorded.

Allowable Subject Matter

- 1. Claims 1-32 are allowed.
- 2. The following is an examiner's statement of reasons for allowance:
- 3. As per claim 1 and dependent claims 2-24, the examiner found noreference in the prior art that disclosed or made obvious a source wherein an optical delivery structure is adapted for directing a beam of optical radiation transmitted therethrough to impinge upon a surface of a thermionic cathode and wherein the beam of transmitted optical radiation has a power level sufficient to heat at least a portion of the surface to an electron emitting temperature so as to cause thermionic emission from the surface and including all limitations recited in independent claim 1.
- 4. **As per claim 25**, the examiner found no reference in the prior art that disclosed or made obvious a source comprising a probe assembly, wherein one or more reflector elements are disposed at predetermined locations along an inner surface of a capsule; the or more reflector elements being operative to reflect incident laser radiation unabsorbed by a thermionic cathode back to the

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thermionic cathode, and including all limitations as recited in independent claim 25.

- 5. As per claim 26 and dependent claims 27-30, the examiner found no reference in the prior art that disclosed or made obvious a probe having an optical delivery structure, wherein the optical delivery structure is adapted to direct a beam of optical radiation transmitted therethrough to impinge upon a surface of a thermionic cathode and wherein the beam of transmitted optical radiation has a power level sufficient to heat at least a portion of the surface to an electron emitting temperature so as to cause thermionic emission of electrons from the surface and including all limitations recited in independent claim 26.
- 6. **As per claim 31**, the examiner found no reference in the prior art that disclosed or made obvious a source including an optical delivery structure, wherein the optical delivery structure is adapted to direct a beam of optical radiation transmitted therethrough to impinge upon a surface of a thermionic cathode and wherein the beam of transmitted optical radiation has a power level sufficient to heat at least a portion of the surface to an electron emitting temperature so as to cause thermionic emission of electrons from the surface and including all limitations recited in independent claim 31.
- 7. As per claim 32, the examiner found no reference in the prior art that disclosed or made obvious a probe including an optical fiber, wherein the optical fiber is adapted to direct a beam of optical radiation transmitted

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therethrough to impinge upon a surface of a thermionic cathode and wherein the beam of transmitted optical radiation has a power level sufficient to heat at least a portion of the surface to an electron emitting temperature so as to cause thermionic emissions of electrons from the surface and including all limitations recited in independent claim 32.

8. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Courtney Thomas whose telephone number is (571) 272-2496. The examiner can normally be reached on M - F (9 am - 5 pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ed Glick can be reached on (571) 272 2490. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Courtney Thomas/

Courtney Thomas Primary Examiner Art Unit 2882